

CDF Operations Report

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CDF Weekly Meeting
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Store Summary

Store	start date	time [hours]	initial lumi [E30]	int. lumi delivered [pb ⁻¹]	live lumi [pb ⁻¹]	live lumi w/ si [pb ⁻¹]	comments
4138	5/12	8.6	136.4	2.62	2.16 83%	2.16 83%	record init. luminosity TeV quench
4144	5/13	28.7	132.4	5.02	4.63 92%	4.63 92%	record efficiency smooth running
4147	5/15	26.4	112.9	4.16	3.81 92%	3.77 91%	smooth running
4148	5/16	30.4	118.9	4.71	4.29 91%	4.22 90%	smooth running
4151	5/18	7.4	127.0	2.15	1.83 85%	1.83 85%	TeV quench separator spark at A49
4154	5/19	0.6	89.1	0.2	0.02 10%	0.02 10%	TeV quench (kicker prefired)
Total	12-19	176.4	125.5	18.9 pb ⁻¹	16.7 pb ⁻¹ 90%	16.6 pb ⁻¹ 89%	pretty good week

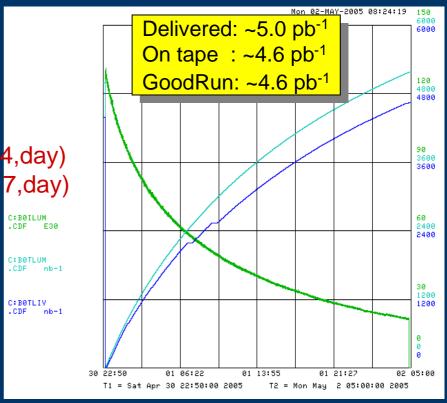
CDF took data with 90% efficiency – 16 pb⁻¹

CDF Operations

- A very good week ~ 90% efficiency mostly smooth data taking
- DAQ/Run Control OK
- Silicon OK (before TeV quench in the morning)
- Several jobs were carried out during the three controlled accesses
 - PCAL HV modules, SMXR swap between ccal13 slots 3 and 4
 - Silicon light level measurements & clock realignment adjustment
 - fixed bent pins on 80W connector on back of cal card transition board
 - <u>access is in progress now (after TeV quench);</u>
 <u>silicon</u> all crowbars checked out OK, roman pot tunnel access, muon...
- System improvements works:
 - XFT timing test, new high lum trigger table tests, silicon d-mode calibration
 - EVB upgrade work: debugged error handling and reformatter errors
 - The luminosity point for the change-over from the high-lum table to the regular-lum table has been changed to 95E30 (from 90E30).

Record Setting Week

- Store Luminosity Record Store 4144
 - Delivered: 5.0 pb⁻¹ (4th best)
 - Recorded: 4.6 pb⁻¹ (2nd best)
 - Physics Data Recorded: 4.6 pb⁻¹ (record)
 - New single run integrated Luminosity record 3.8 pb⁻¹ Run 198082
- Store 4138 136.4E30
 New Record Initial Luminosity
- Single Shift Record
 - Integrated Record: 2.1 pb⁻¹ (5/14,day)
 - Record Efficiency Shift: 95.6% (5/17,day)
 - Note: > 1 pb⁻¹ luminosity required
- Look forward to breaking these records in the next weeks!!

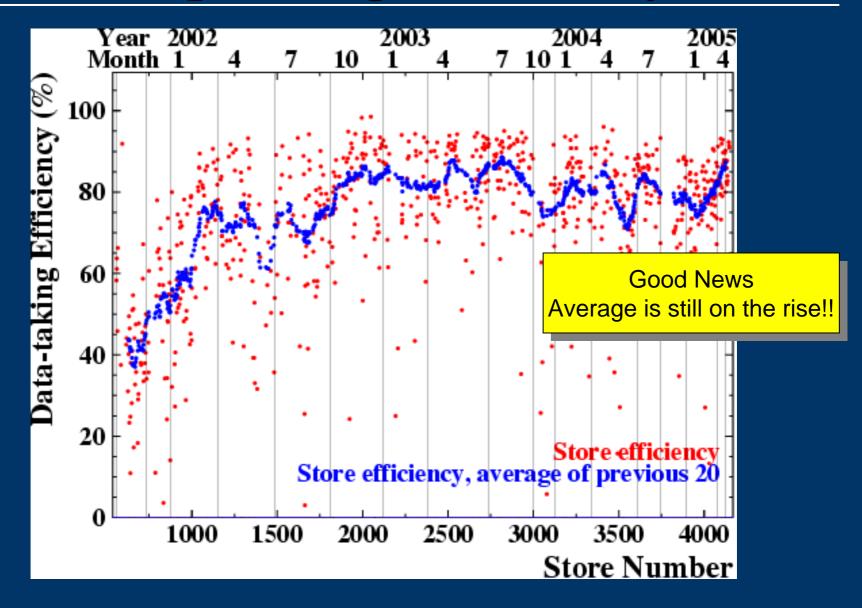


New Single Run Integrated Luminosity Record 3.8pb-1 (Run 198082)

Excellent job owl, day, evening and then owl (again) shift crews, and all the people who established stable running!



Improving Efficiency



Run II Integrated Luminosity

